

# Juhoon Kim

✉ kimjuhoon@gmail.com

## Education

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### Dr.-ing. (Ph.D.) in Computer Science

TU BERLIN (TECHNISCHE UNIVERSITÄT BERLIN)

- Thesis: "Towards Utilizing Network Diversity for Future Internet Protocols"
- Supervisors: Prof. Anja Feldmann (TU Berlin, Germany), Prof. Don Towsley (UMass Amherst, USA), Prof. Luigi Iannone (Telecom Paris-Tech, France), Dr. Ramin Khalili (Huawei Deutschland, Germany)

*Berlin, Germany*  
*Apr. 2010 - Apr. 2014*

### Master of Science (M.Sc.) in Computer Science

TU BERLIN (TECHNISCHE UNIVERSITÄT BERLIN)

- Thesis: "eDonkey and Kad Traffic Analysis based on Semantic Protocol Identification"
- Supervisor: Prof. Anja Feldmann (TU Berlin, Germany)

*Berlin, Germany*  
*Sep. 2006 - Mar. 2010*

## Professional Experience

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### Deutsche Telekom AG

TECHNOLOGY EXPERT

- Research on 5G technologies, SDN, and NFV

*Berlin, Germany*  
*Jul. 2018 - Present*

### Telekom Innovation Laboratories (TU-Berlin)

RESEARCH ASSOCIATE

- Research on 5G technologies, SDN, and NFV
- EU-funded NFV projects
- Internet traffic measurement and analysis

*Berlin, Germany*  
*Aug. 2014 - Jun. 2018*

### International Carrier Sales & Solutions, Deutsche Telekom

RESEARCH VISIT

- Internet traffic measurement and analysis

*Bonn, Germany*  
*Aug. 2012 - Sep. 2012*

### Multiple software companies during the period

RESEARCH & DEVELOPMENT

- Software development

*Seoul, S.Korea*  
*Nov. 2001 - Oct. 2004*

## Projects

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### FP7 UNIFY

CO-FUNDED BY THE EUROPEAN COMMISSION DG CONNECT IN FP7

UNIFY is a consortium of 16 European partners and aims at a full network service virtualization.

*Aug. 2014 - Apr. 2016*

### 5G-PPP 5GEx

CO-FUNDED BY 5G-PPP & HORIZON2020

5GEx is a consortium of 17 European partners and aims at enabling a unified 5G infrastructure service market.

*Oct. 2015 - Present*

## Professional Services

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#### Proposal Reviewer of

- Horizon2020 MONROE (2016)
- French National Research Agency ANR (2013)

#### TPC Member of

- IEEE International Conference on Broadband and Photonics (2015)
- MOBISLICE Workshop (2018)

#### Reviewer of

- Cyber-enabled Distributed Computing and Knowledge Discovery Conference (2015)
- Elsevier Computer Networks (2011)

#### Chair of

- Asian Internet Engineering Conference (2011)
- IEEE Conference on Network Function Virtualization and Software Defined Networks (2018)

## Teaching Experience

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### MASTER/DIPLOM THESIS SUPERVISION

- Soumya Ranjan Parida, *What Web Objects are Delivered Through Hypergiants?*, 2016
- Karl Fischer, *Smart mHTTP: Chunk Scheduler Design and Implementation for the Multi-source Multipath HTTP*, 2015
- Matthias Siebke, *Analyse und Untersuchung des World-of-Warcraft-Netzwerkprotokolls*, 2011

### TEACHING & SEMINAR ORGANIZATION

- Network Protocols and Architectures (WS13/14, WS12/13, WS11/12, WS10/11), *TU Berlin*
- Internet Routing Seminar (WS13/14, WS11/12, WS10/11), *TU Berlin*
- Internet Measurement Seminar (SS13), *TU Berlin*

## Publications

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- GiLAN Roaming: Roam Like at Home in a Multi-Provider NFV Environment** *Presented in Rome, Italy*  
IEEE ISNCC'18 (THE INTERNATIONAL SYMPOSIUM ON NETWORKS, COMPUTERS AND COMMUNICATIONS) 2018
- Realizing Services and Slices Across Multiple Operator Domains** *Presented in Taipei, Taiwan*  
IEEE/IFIP NOMS'18 (NETWORK OPERATIONS AND MANAGEMENT SYMPOSIUM) 2018
- DevOps for Software-Defined Telecom Infrastructure** *IETF Draft*  
IETF DRAFT-UNIFY-NFVRG-DEVOPS-00, 01, 02 2015
- Service Provider DevOps for Large Scale Modern Network Services** *Presented in Ottawa, Canada*  
IEEE BDIM'15 (BUSINESS-DRIVEN IT MANAGEMENT) 2015
- Multi-Source Multi-Path HTTP (mHTTP): A Proposal** *Presented in Austin, TX, USA*  
ACM SIGMETRICS'14 2014
- Caching Locator/ID mappings: An Experimental Scalability Analysis and Its Implications** *Journal*  
ELSEVIER COMPUTER NETWORKS 2012
- A Local Approach to Fast Failure Recovery of LISP Ingress Tunnel Routers** *Presented in Prague, Czech Republic*  
IFIP NETWORKING'12 2012
- A Deep Dive into the LISP Cache and What ISPs Should Know About It** *Presented in Valencia, Spain*  
IFIP NETWORKING'11 2011
- Revisiting Cacheability in Times of User Generated Content** *Presented in San Diego, CA, USA*  
IEEE GLOBAL INTERNET SYMPOSIUM'10 2010
- Today's Usenet Usage: Characterizing NNTP Traffic** *Presented in San Diego, CA, USA*  
IEEE GLOBAL INTERNET SYMPOSIUM'10 2010